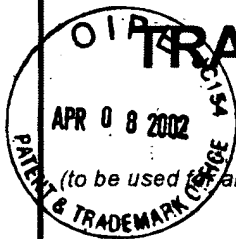


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(Modified) PTO/SB/21 (6-98)  
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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	09/993,314
Filing Date	November 5, 2001
First Named Inventor	Theo T. Nikiforov
Group Art Unit	1641
Examiner Name	Unassigned
Attorney Docket Number	01-054410U

Total Number of Pages in This Submission

## ENCLOSURES (check all that apply)

- ☐ Fee Transmittal Form
- ☐ Fee Attached
- ☐ Amendment / Response
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/Incomplete Application
- ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition Routing Slip (PTO/SB/69) and Accompanying Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Small Entity Statement
- ☐ Request for Refund

- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interference
- ☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Additional Enclosure(s) (please identify below):

PTO-Form 1449, Cited References and receipt acknowledgment postcard

### Authorization to Charge Deposit Account

Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed.

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name

Jonathan Alan Quine, Reg. No. 41,261, Quine Intellectual Property Law Group P.C.

Signature

Date

April 3, 2002

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: April 3, 2002

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By Evelyn Gomez  
Evelyn Gomez

Attorney Docket No. 0154410US  
Client Ref. No. 100711810US

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Theo T. Nikiforov, *et al.*

Application No.: 09/993,314

Filed: November 5, 2001

For: PRESSURE-BASED MOBILITY  
SHIFT ASSAYS

Examiner: Unassigned

Art Unit: 1641

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

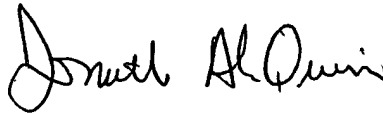
Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jonathan Alan Quine". The signature is fluid and cursive, with the first name "Jonathan" and last name "Quine" clearly distinguishable.

Jonathan Alan Quine  
Reg. No. 41,261

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.  
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Fax: (510) 337-7877

JAQ: emg



Substitute for form 1449A-BX

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/993,314
Filing Date	November 5, 2001
First Named Inventor	The T. Nikiforov
Group Art Unit	1641
Examiner Name	Unassigned
Attorney Docket Number	01-054410US
Date Submitted	April 3, 2002

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U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
	AA	5,942,443		Parce et al.	08-24-1999	
	AB	6,235,471		Knapp et al.	05-22-2001	
	AC	6,274,337		Parce et al.	08-14-2001	
	AD	6,287,520		Parce et al.	09-11-2001	
	AE	6,287,774		Nikiforov	09-11-2001	
	AF	6,306,590		Mehta et al.	10-23-2001	

FOREIGN PATENT DOCUMENTS

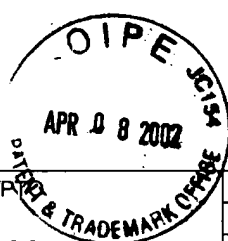
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		Office	Number	Kind Code (if known)				
	AG	WO	98/45481	A1	Caliper Technologies Corp.	10-15-1998		
	AH	WO	98/56956	A1	Caliper Technologies Corp.	12-17-1998		
	AI	WO	00/50172	A1	Caliper Technologies Corp.	08-31-2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	AJ	GRATE ET AL. (1999) "Sequential Injection Separation and Sensing." <i>Chemical Microsensors and Applications</i> !! 3857:70-73	
	AK	WEISS (1995) <i>Ion Chromatography</i> VCH Publications, Chapter 3, pages 25-208	
	AL	ZHANG AND WANG (1998) <i>J. Chromatogr</i> 712:73	
	AM	LANE ET AL. (1994) <i>J. Cell Biol.</i> 125:929-943	
	AN	JENO ET AL. (1993) <i>Anal. Biochem</i> 215:292-298	
	AO	BERNA ET AL. (1997) "Polyol Promoted Adsorption of Serum Proteins to Amphiphilic Agarose Based Adsorbents." <i>J. Chromatogr.</i> 764:193-200	
	AP	BERNA ET AL. (1996) "Cosolvent-Induced Adsorption and Desorption of Serum Proteins on an Amphiphilic Mercaptomethylene Pyridine-Derivatized Agarose Gel." <i>Arch. Biochem. And Biophys.</i> 330:188-192	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449A-B/P

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known

Application Number	09/993,314
Filing Date	November 5, 2001
First Named Inventor	The T. Nikiforov
Group Art Unit	1641
Examiner Name	Unassigned
Attorney Docket Number	01-054410US
Date Submitted	April 3, 2002

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AQ	GOHEEN AND GIBBINS (2000) "Protein losses in ion-exchange and hydrophobic interaction high-performance liquid chromatography." <i>J. Chromatogr.</i> 890(1):73-80
AR	TEAL ET AL. (2000) Native purification of biomolecules with temperature-mediated hydrophobic modulation liquid chromatography." <i>Anal Biochem.</i> 283(2):159-65
AS	TOSHIMA ET AL. (2000) "A New Model of Cerebral Microthromobsis in Rats and the Neuroprotective Effect of a Rho-Kinase Inhibitor." <i>Stroke</i> 31(9):2245-2250
AT	MURATA ET AL. (2000) "Vascular endothelial growth factor (VEGF) enhances the expression of receptors and activates mitogen-activated protein (MAP) kinase of dog retinal capillary endothelial cells." <i>J. Ocul. Pharmacol. Ther.</i> 16(4):383-391
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AV	MARTELLI ET AL. (2000) "Phosphatidylinositol 3-kinase translocates to the nucleus of osteoblast-like MC3T3-E1 cells in response to insulin-like growth factor I and platelet-derived growth factor but not to the proapoptotic cytokin tumor necrosis factor alpha." <i>J. Bone Miner Res.</i> 15(9):1716-1730
AW	CAVERZASIO ET AL. "Evidence for the involvement of two pathways in activation of extracellular signal-regulated kinase (Erk) and cell proliferation bu Gi and Gq protein-coupled receptors in osteoblast-like cells." <i>J. Bone Miner Res.</i> 15(9):1697-1706
AX	SLEVIN ET AL. (2000) "Activation of MAP kinase (ERK-1/ERK-2), tyrosine kinase and VEGF in the human brain following acute ischaemic stroke." <i>Neuroreport</i> 11(12):2759-2764
AY	MUNOZ ET AL. (2000) "Increase in the expression of the neuronal cyclin-dependent protein kinase cdk-5 during differentiation of N2A neuroblastoma cells." <i>Neuroreport</i> 11(12):2733-2738
AZ	ROCHETTE-EGLY ET AL. (2000) "The AF-1 and AF-2 activating domains of retinoic acid receptor-alpha (RARalpha) and their phosphorylation are differently involved in pariental endodermal differentiation of F9 cells and retinoid-induced expression of target genes." <i>Mol. Endocrinol</i> 14(9):1398-410
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BB	STOFEKA ET AL. (2000) "Mutation of the SHP-2 binding site in growth hormone (GH) receptor prolongs GH-promoted tyrosyl phosphorylation of GH receptor, JAK2, and STAT5B." <i>Mol Endocrinol</i> 14(9):1338-50
BC	WANG ET AL. (2000) "Thyrotropin-releasing hormone stimulates phosphorylztion of the epidermal growth factor receptor in GH3 pituitary cells." <i>Mol. Endocrinol</i> 14(9):1328-1337

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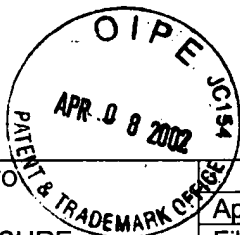


Substitute for form 1449A-B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Complete if Known	
	Application Number	09/993,314
	Filing Date	November 5, 2001
	First Named Inventor	The T. Nikiforov
	Group Art Unit	1641
	Examiner Name	Unassigned
	Attorney Docket Number	01-054410US
Date Submitted	April 3, 2002	

BD	WILMANNS ET AL. (2000) "Activation of calcium/calmodulin regulates kinases." <i>Cell Mol Biol</i> 46(5):883-894	
BE	GENET ET AL. (2000) "Effects of free radicals on cytosolic creatine kinase activities and protein by antioxidant enzymes and sulfhydryl compounds." <i>Mol Cell Biochem</i> 210(1-2):23-28	
BF	KAYTOR ET AL. (2000) "An indirect role for upstream stimulatory factor in glucose-mediated induction of pyruvate kinase and S14 gene expression." <i>Mol. Cell Biochem</i> 210(1-2):13-21	
BG	MIDDLETON (1990) "Hexokinases and glucokinases." <i>Biochem. Soc. Trans.</i> 18:180-183	
BH	LINDBERG ET AL. (1992) "Dual-specificity protein kinases: will any hydroxyl do?" <i>Trends Biochem. Sci</i> 17:114-119	
BI	KNIGHTON ET AL. (1991) "Crystal structure of the catalytic subunit of cAMP-dependent protein kinase." <i>Science</i> 253:407-414	
BJ	FEATHERSTONE AND RUSSELL (1991) "Fission yeast p107 <sup>weel</sup> mitotic inhibitor as a tyrosine/serine kinase." <i>Nature</i> 349:808-811	
BK	KEMP AND PEARSON (1990) "Protein kinase recognition sequence motifs." <i>Trends Biochem. Sci.</i> 15:342-346	
BL	PAGANI ET AL. (2001) "5'-Nucleotidase in the detection of increased activity of the liver form of alkaline phosphatase in serum." <i>Clin. Chem.</i> 47(11):2046-2048	
BM	ABE ET AL. (2001) "Extracellular matrix regulates induction of alkaline phosphatase expression by ascorbic acid in human fibroblasts." <i>J. Cell Physiol</i> 189(2):144-151	
BN	DIRNBACH ET AL. (2001) "Mg <sup>2+</sup> binding to alkaline phosphatase correlates with slow changes in protein lability." <i>Biochemistry</i> 40(37):11219-11226	
BO	TIEDTKE ET AL. (1983) "Acid phosphatase associated with discharging secretory vesicles (mucocysts) of <i>Tetrahymena thermophila</i> ." <i>Eur. J. Cell Biol</i> 30(2):254-257	
BP	LUCHTER-WASYLEWSKA (2001) "Cooperative kinetics of human prostatic acid phosphatase." <i>Biochim. Biophys. Acta</i> 15489(2):257-264	
BQ	PIERRUGUES ET AL. (2001) "Lipid phosphate phosphatase in Arabidopsis. Regulation of the AtLPP1 gene in response to stress." <i>J. Bio. Chem</i> 276(23):20300-20308	
BR	WANG ET AL. (2001) "Protein phosphatase 1alpha-mediated stimulation of apoptosis is associated with dephosphorylation of the reinodlastoma protein." <i>Oncogene</i> 20(43):6111-6122	
BS	TAN ET AL. (2001) "Phosphorylation of a novel myosin binding subunit of protein phosphatase 1 reveals a conserved mechanism in the regulation of actin cytoskeleton." <i>J. Biol. Chem</i> 276(24):21209-21216	
BT	MOORE ET AL. (1985) "The involvement of glucose-6-phosphatase in mucilage secretion by	

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<b>Substitute for form 1449A-B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Complete if Known</b>	
	Application Number	09/993,314
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	Group Art Unit	1641
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		root cap cells of Zea mays." <i>Ann. Bot. (Lond)</i> 56:139-142	
	BU	ICHAH ET AL. (2001) "Glucose 6-phosphate hydrolysis is activated by glucagon in a temperature-sensitive manner." <i>J. Biol. Chem</i> 276(30):28126-28133	
	BV	YE ET AL. (1996) "Inducer expulsion and the occurrence of an HPr(Ser-P)-activated sugar-phosphate phosphatase in <i>Enterococcus faecalis</i> and <i>Streptococcus pyogenes</i> ." <i>Microbiology</i> 142(Pt. 3):585-592	

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